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vided range. The bottom or sole of the wooden frame in which the level *c* is fixed is made somewhat curvilinear, so as to enable it to yield to the pressure of the adjusting screw.

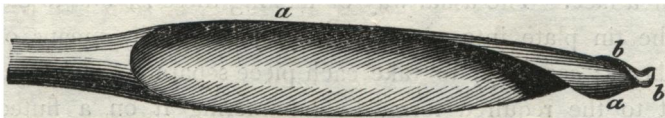
No. II.

GERMAN BORING-BIT.

The THANKS of the Society were voted to BRYAN DONKIN, Esq., Chairman of the Committee of Mechanics, for two German Boring-bits presented by him to the Society. The instruments have been placed in the Society's repository.

THE boring-bit, of which the following is a description, was met with by Mr. Donkin in Germany, and it appeared to him, as it did subsequently to the Society, that it might be in some cases a useful addition to the implements already used in this country. The instrument is very simple, enters the wood easily, bores rapidly, and forms a clean hole.

Fig. 1.



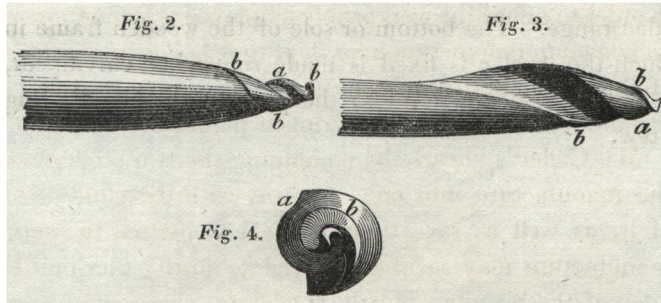


Fig. 1 a front view of the bowl of the boring-bit; *aa* the cutting edge; *bb* a thread or fin winding round the back, which acts as a screw to draw the bit into the wood. Fig. 2 a back view, showing the thread *bbb*. Fig. 3 a side view, and fig. 4 an end view.

No. III.

TAG SHEARS.

The SILVER VULCAN MEDAL was this session presented to Mr. T. COLLETT, Upper Greystoke-place, Fetter-lane, for his Tag Shears; a model of which has been placed in the Society's repository.

A TAG is the bit of thin tin-plate which is fixed to the end of a lace. The usual way of making these is, first to cut the tin plate into pieces of a proper size, by means of shears; secondly, to take each piece separately and bend it to the required form, by hammering it on a fluted mould.

These processes must be got through with great rapidity,